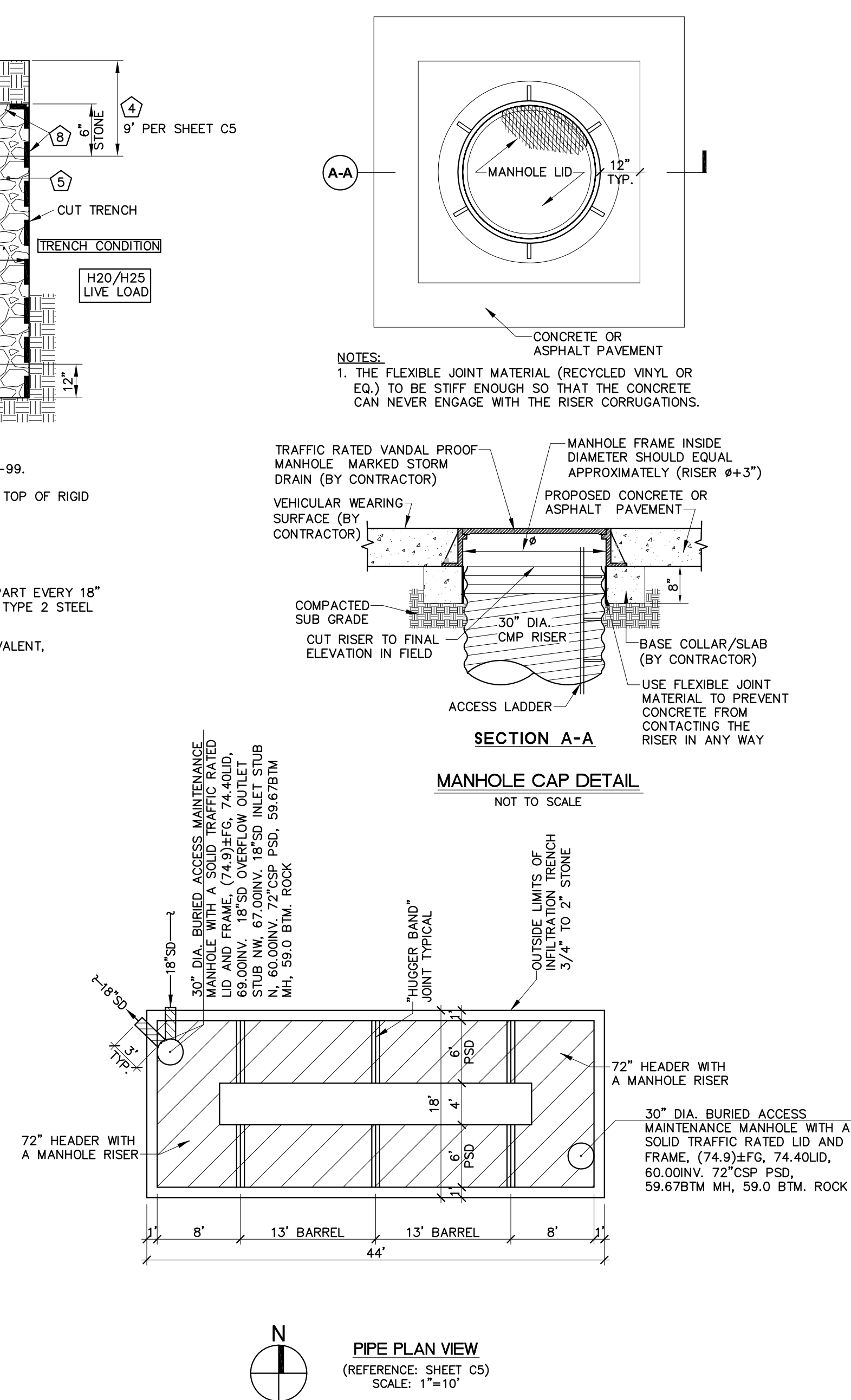


FABRICATION NOTE
ALL HUGGER BAND JOINT FITTINGS, BARRELS, HEADERS, RISERS, PIPE PERFORATIONS AND OTHER RETENTION SYSTEM RELATED IMPROVEMENTS SHALL BE ORDERED AND FABRICATED OFFSITE TO MINIMIZE INSTALLATION TIME ONSITE. ONSITE FIELD FABRICATION SHALL BE AVOIDED. INSTALLATION SHALL BE PERFORMED PER THE STANDARDS OF THE PIPE SUPPLIER. ACCEPTABLE PIPE SUPPLIERS ARE CONTECH STORMWATER SOLUTIONS AND PACIFIC CORRUGATED PIPE COMPANY.

CONSTRUCTION LOADING NOTE
 PROVIDE A 42 INCH MINIMUM TEMPORARY SOIL COVER OVER THE UNDERGROUND RETENTION PIPE BEFORE ANY HEAVY CONSTRUCTION EQUIPMENT IS ALLOWED TO BE OVER THE PIPE.



CONTECH PIPE GENERAL NOTES

1. ALL RISERS AND STUBS ARE 2-2 $\frac{3}{8}$ "X1 $\frac{1}{2}$ " CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED

CONTECH FOUNDATION BEDDING PREPARATION NOTE

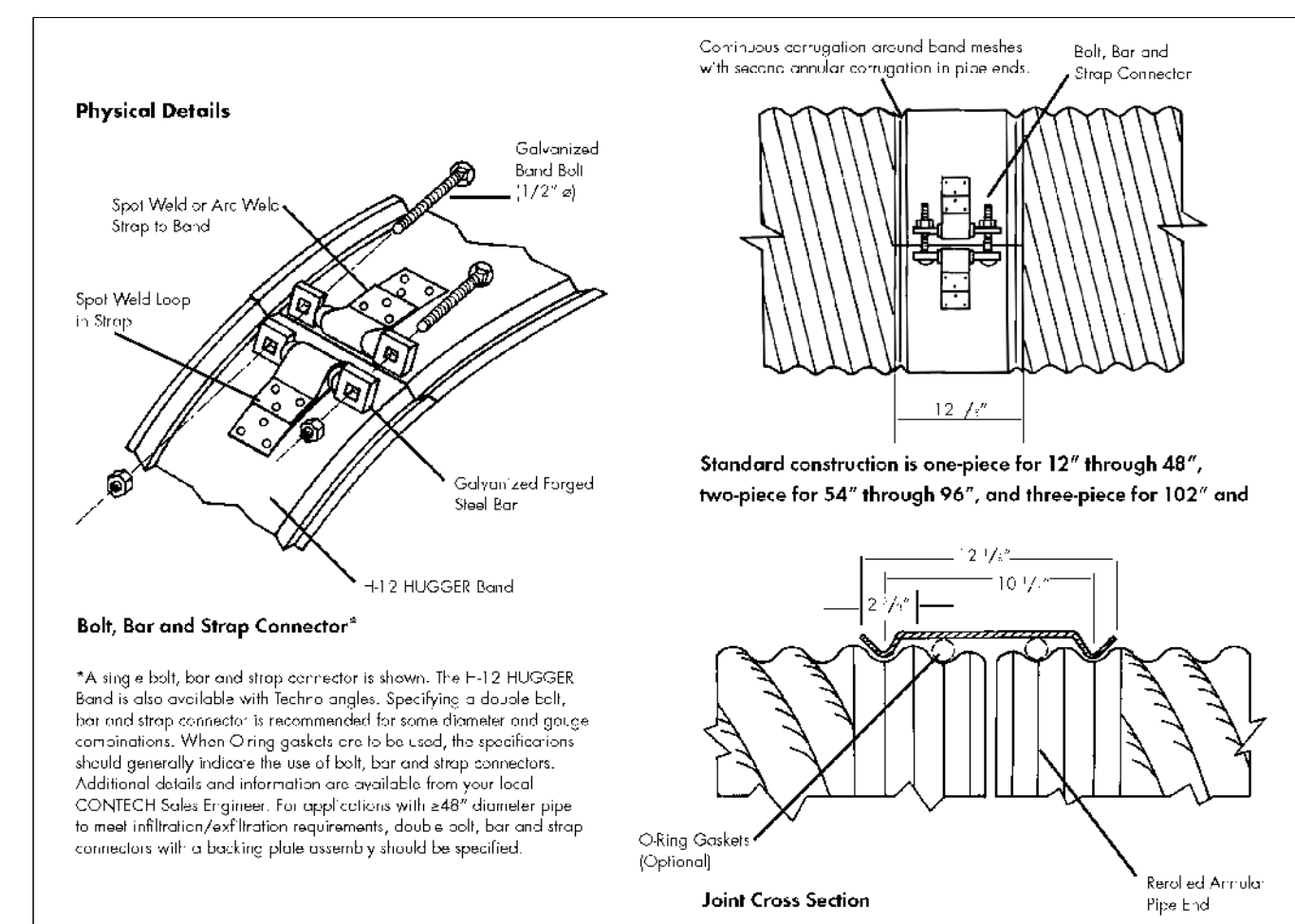
CONTECA BACKFILL DURING PREPARATION NOTE: THE BACKFILL MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSTABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED BY CONTRACTOR, ONCE THE FOUNDATION PREPARATION IS COMPLETE, A MINIMUM OF 4 INCHES OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

CONTECA BACKFILL NOTE:

WHEN PLACING THE FIRST LISTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO (2") DIFFERENCE BETWEEN ANY OF THE PIPES AT ANY TIME. DURING THE BACKFILL PROCESS, THE BACKFILL SHALL BE ADVANCED IN ONE LEVEL AT THE DETENTION AND/OR TREATMENT SITE AT THE SAME RATE TO AVOID DIFFERENTIAL DRAINAGE ON THE PIPE.

CONTECH SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL NOTES

1. **SCOPE**
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.
2. **MATERIAL**
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.
3. **PIPE**
THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A750. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.
- ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.
4. **HANDLING AND ASSEMBLY**
SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA).
5. **INSTALLATION**
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION 8 OR AS SHOWN ON THE PROJECT PLANS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS, THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.
- IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUE GUIDES FOR SAFE PRACTICES.



DETAIL "D" (55)
PERFORATED UNDERGROUND CORRUGATED STEEL PIPE
RETENTION INFILTRATION TRENCH SYSTEM DETAIL
 NOT TO SCALE
 (REFERENCE - CONTECH STORMWATER SOLUTIONS TYPICAL DETAILS)

HARRINGTON GEOTECHNICAL ENGINEERING, INC. SOIL PERCOLATION
TEST RESULTS FROM SEPTEMBER 14, 2015 ADENDUM LETTER

1. SOIL TYPE IS CLEAN SAND AND GRAVEL.
2. MEASURED SOIL PERCOLATION RATE OF AT LEAST 28 INCHES PER HOUR.
3. HISTORIC GROUND WATER DEPTH IN EXCESS OF 50 FEET.

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 05-06-16
MARK S. LAPOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC FLS SS

DATE _____

REVISIONS:

[illegible]

DATE ISSUED: 05-06-1

PROJECT NO: 2014-4016

SCALE: _____ As indicated

SHEET NUMBER: C8

SHEET TITLE:

DETAIL SHEET